

MILL TEST CERTIFICATE



Contract No.	
Customer	DUFERCO
L/C No.	
P/O No.	32201405C32R
Commodity	H-BEAM
Specification	ASTM A572 G50/A992/ GSA 350W

Head Office	6368, Donghaean-ro, Nam-gu, Pohang, 790-707, S. Korea
Certificate No.	IH20140604179 - 1
Class Cert. No.	
Date of Issue	2014-06-21

Dimensions & Length	Heat No.	Pieces Weights (kg)	Chemical Composition (%)											Tensile Test			Impact Test (V-notch)				Remarks (Impact Specimen Size)					
			C	Si	Mn	P	S	Cu	Mo	Al	Nb	Sn	CE(1)	Tensile Strength	Yield point	Elongation(2)	Yield Ratio	AVG	1	2		3				
			x100		x1000		x100		x1000		x100		x100		N/mm ²	%		()	C							
30X10-1/2X99 40.00 FT	3E3294	8,980	17	15	100	16	14	30	2	3	11	9	32	1	1	14	39	549	428	27.8	0.78					
30X10-1/2X99 40.00 FT	3E3295	21,552	17	15	103	19	10	25	2	3	9	18	31	1	12	38	554	421	25.9	0.76						
30X10-1/2X99 40.00 FT	3E3296	1,796	18	15	103	19	16	25	2	3	10	18	33	1	14	40	532	438	30.5	0.82						
TOTAL		32,328																								

(Note) (1) Ceq: (CE=C+Mn/6+Cr/5+V/6+Mo/5+Ni/15+Cu/16) (2) Gauge length: 200 mm (3) Yield Ratio = YP/TS

Conditions of supply : As Rolled

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WE HEREBY CERTIFY THAT THE MATERIAL HAS BEEN MADE AND TESTED IN ACCORDANCE WITH THE ABOVE SPECIFICATION AND ALSO WITH THE REQUIREMENTS CALLED FOR THE ABOVE ORDER

General Manager of Q.A Team

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